SEQUENCE LISTING

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<150> 61/007,998
<151> 2007-12-17
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<151> 2007-05-31
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Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser Gly
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Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
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Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Arg Pro
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                85
Val Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala
                                105
                                                     110
            100
Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
                                                 125
                            120
Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
                        135
                                             140
Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
                                        155
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Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
                                     170
                165
Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
                                                     190
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            180
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Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
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                           200
Ser Phe Asn Arg Gly Glu Cys
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Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5
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Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Arg Ser Ser
                               25
Ser Tyr Tyr Trp Gly Trp Phe Arg Gln Thr Pro Gly Lys Gly Leu Glu
                                              45
                          40
Trp Leu Gly Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
                      55
Leu Lys Asn Arg Val Thr Ile Ser Ile Asp Thr Ser Glu Asn Gln Ser
                   70
                                      75
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                                   90
Cys Ala Arg Pro Gln Ala Tyr Ser His Asp Ser Ser Gly His Ser Pro
                              105
Phe Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser
                          120
       115
Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
                                          140
                      135
Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
                                      155
                  150
Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
                                   170
               165
His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser
                              185
                                                  190
           180
Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
                           200
                                               205
Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
                                          220
                       215
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
                   230
                                       235
Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
               245
                                  250
Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
                                                  270
           260
                              265
Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
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                          280
Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
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                       295
Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
                   310
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Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys. Ala
                325
                                    330
Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
                                345
Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
                                                365
                            360
Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
                                            380
                        375
Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
                    390
                                        395
Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
                                    410
                405
Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
                                425
Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
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       435
Ser Leu Ser Leu Ser Pro Gly Lys
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<213> Artificial Sequence
<223> mAb CS-E11 light chain variable region
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Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln
                                    10
Arg Val Thr Ile Ser Cys Thr Gly Asp Arg Ser Asn Ile Gly Ala Thr
Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Arg Ala Pro Lys Leu
                            40
Leu Ile Tyr Gly Asn His Asn Arg Pro Ser Gly Val Pro Glu Arg Phe
                        55
Ser Gly Ser Lys Ser Gly Ser Ser Ala Ser Leu Ala Ile Ala Gly Leu
                    70
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Gly
                                    90
Leu Ser Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
                                105
<210> 4
<211> 126
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<213> Artificial Sequence
<223> mAb CS-Ell heavy chain variable region
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<400> 4
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
                                    10
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Arg Ser Ser
Ser Tyr Tyr Trp Gly Trp Phe Arg Gln Thr Pro Gly Lys Gly Leu Glu
                            40
                                                45
Trp Leu Gly Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
Leu Lys Asn Arg Val Thr Ile Ser Ile Asp Thr Ser Glu Asn Gln Ser
                    70
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85
Cys Ala Arg Pro Gln Ala Tyr Ser His Asp Ser Ser Gly His Ser Pro
                                105
            100
Phe Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                            120
<210> 5
<211> 113
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb CS-C10 light chain variable region
<400> 5
Gin Ala Val Leu Thr Gin Pro Ser Ser Val Ser Gly Ala Pro Gly Gin
                                    10
Arg Val Thr Ile Ser Cys Thr Gly Gly Ser Ser Asn Ile Gly Ala Gly
                                25
            20
Tyr Asp Val His Trp Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu
                            40
Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
                        55
                                             60
Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
                    70
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser
                85
                                    90
Leu Asn Gly Pro Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu
Gly
<210> 6
<211> 126
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb CS-C10 heavy chain variable region
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<400> 6
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
                                    10
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Arg Ser Ser
                                25
Ser Tyr Tyr Trp Gly Trp Phe Arg Gln Thr Pro Gly Lys Gly Leu Glu
                           40
                                                45
Trp Leu Gly Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
Leu Lys Ser Arg Val Thr Ile Ser Ile Asp Thr Ser Glu Asn Gln Ser
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85
Cys Ala Arg Pro Gln Ala Tyr Ser His Asp Ser Ser Gly His Ser Pro
                               105
Phe Asp Leu Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser
                            120
<210> 7
<211> 108
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb CS-A10 light chain variable region
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
                                    10
Thr Ala Thr Ile Thr Cys Ser Gly Asp Asn Leu Gly Asp Lys Ser Val
            20
                                25
Ser Trp Tyr Gln Gln Lys Ala Gly Gln Ser Pro Val Leu Val Met Ser
                            40
Gln Gly Ser Lys Arg Pro Leu Gly Ile Pro Asp Arg Ile Ser Gly Ser
Asn Ser Gly Thr Thr Ala Thr Leu Thr Ile Ser Gly Val Gln Thr Val
                                        75
Asp Glu Ala Asp Phe Tyr Cys Gln Thr Trp Asp Arg Tyr Thr Gly Val
                85
Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly
<210> 8
<211> 126
<212> PRT
<213> Artificial Sequence
<223> mAb CS-A10 heavy chain variable region
Arg Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gly
                                    10
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Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Arg Ser Ser
                                25
Ser Tyr Tyr Trp Gly Trp Phe Arg Gln Thr Pro Gly Lys Gly Leu Glu
                            40
Trp Leu Gly Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
Leu Lys Gly Arg Val Thr Ile Ser Ile Asp Thr Ser Glu Asn Gln Ser
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                8.5
Cys Ala Arg Pro Gln Ala Tyr Ser His Asp Ser Ser Gly His Ser Pro
                               105
Phe Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                            120
<210> 9
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<223> mAb BMV-H11 light chain variable region
<400> 9
Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
                                    10
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                                25
Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
                            40
Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe
                        55
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
                    70
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg
                                    90
Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
                                105
<210> 10
<211> 128
<212> PRT
<213> Artificial Sequence
<223> mAb BMV-H11 heavy chain variable region
Arg Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
                                    10
Thr Leu Ser Leu Ile Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20
```

```
Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
                            40
Trp Ile Gly Asn Met Phe Tyr Ser Gly Gly Ala Tyr Tyr Asn Pro Ser
                        55
Leu Lys Ser Arg Val Ser Ile Ser Val Gly Pro Ser Ser Asn Gln Phe
                    70
                                        75
Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                                    90
Cys Ala Arg Pro Leu Gly Tyr Asn Phe Asp Ser Ser Gly Gln Gly Lys
                                105
Ser Ala Phe Glu Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
    115
                            120
<210> 11
<211> 111
<212> PRT
<213> Artificial Sequence
<223> mAb BMV-E6 light chain variable region
<400> 11
Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
                - 5
                                   10
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                                25
Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
                    70
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg
               85
                                   90
Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
                                105
<210> 12
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<213> Artificial Sequence
<223> mAb BMV-E6 heavy chain variable region
<400> 12
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Trp Ile Gly Asn Met Phe Tyr Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
                      55
                                           60
Leu Lys Ser Arg Val Ser Ile Ser Val Gly Pro Ser Ser Asn Gln Phe
                   70
                                       75
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                                   90
Cys Ala Arq Pro Leu Gly His Asn Phe Asp Ser Ser Gly Gln Gly Glu
                               105
Gly Ala Phe Glu Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser
                            120
<210> 13
<211> 111
<212> PRT
<213> Artificial Sequence
<223> mAb BMV-D4 light chain variable region
<400> 13
Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
               5
                                    10
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                                25
Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
                           40
Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe
                       55
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
                   70
                                       75
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg
                                   90
Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
<210> 14
<211> 128
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb BMV-D4 heavy chain variable region
<400> 14
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
                                    10
                5
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
                                25
Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
                           40
Trp Ile Gly Asn Met Phe Tyr Ser Gly Gly Ala Tyr Tyr Asn Pro Ser
```

55

```
Leu Lys Asn Arg Val Ser Ile Ser Val Gly Pro Ser Ser Asn Gln Phe
                    70
                                        75
Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
               85
                                    90
Cys Ala Arg Pro Leu Gly Tyr Asn Phe Asp Ser Ser Gly Gln Gly Lys
                               105
Ser Ala Phe Glu Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser
                            120
<210> 15
<211> 111
<212> PRT
<213> Artificial Sequence
<223> mAb BMV-C2 light chain variable region
<400> 15
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
                                    10
Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn
                                25
Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met
Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
                        55
Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln
                                        75
                    70
Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
              85
                                    90
Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly
                                105
<210> 16
<211> 128
<212> PRT
<213> Artificial Sequence
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<223> mAb BMV-C2 heavy chain variable region
<400> 16
Glu Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
                                    10
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
                                25
Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
                            40
Trp Ile Gly Asn Met Phe Tyr Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
                        55
Leu Lys Ser Arg Val Ser Ile Ser Val Gly Pro Ser Ser Asn Gln Phe
```

```
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                                    90
               85
Cys Ala Arg Pro Leu Gly His Asn Phe Asp Ser Ser Gly Gln Gly Glu
                                                   110
           100
                               105
Gly Ala Phe Glu Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                           120
<210> 17
<211> 11
<212> PRT
<213> Artificial Sequence
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<223> mAb CS-D7 VL CDR1
<400> 17
Arg Ala Ser Gln Tyr Val Ser Asp Asn Leu Ala
                 5
<210> 18
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<223> mAb CS-D7 VL CDR2
<400> 18
Gly Ala Ser Thr Arg Ala Thr
<210> 19
<211> 10
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<223> mAb CS-D7 VL CDR3
<400> 19
Gln Gln Tyr Asn Asn Trp Arg Pro Val Thr
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<223> mAb CS-E11 VL CDR1
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Gly Asn His Asn Arg Pro Ser
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<223> mAb CS-E11 VL CDR3
<400> 22
Gln Ser Tyr Asp Ser Gly Leu Ser Gly Tyr Val
                                    10
<210> 23
<211> 14
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<213> Artificial Sequence
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<223> mAb CS-D10 VL CDR1
<400> 23
Thr Gly Gly Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His
                 5
<210> 24
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb CS-D10 VL CDR2
<400> 24
Gly Asn Ser Asn Arg Pro Ser
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<210> 25
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb CS-D10 VL CDR3
<400> 25
Gln Ser Tyr Asp Ser Ser Leu Asn Gly Pro Val Val
                 5
                                     10
<210> 26
<211> 11
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb CS-A10 VL CDR1
<400> 26
Ser Gly Asp Asn Leu Gly Asp Lys Ser Val Ser
<210> 27
<211> 7
<212> PRT
<213> Artificial Sequence
<223> mAb CS-A10 VL CDR2
<400> 27
Gln Gly Ser Lys Arg Pro Leu
<210> 28
<211> 10
<212> PRT
<213> Artificial Sequence
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<223> mAb CS-A10 VL CDR3
<400> 28
Gln Thr Trp Asp Arg Tyr Thr Gly Val Val
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<210> 29
<211> 14
<212> PRT
<213> Artificial Sequence
<220>
<223> mAbs BMV-H11, BMV-E6 and BMV-D4 VL CDR1
<400> 29
Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
                                     10
<210> 30
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> mAbs BMV-H11, BMV-E6 and BMV-D4 VL CDR2
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Glu Gly Ser Lys Arg Pro Ser
                5
<210> 31
<211> 10
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<213> Artificial Sequence
<223> mAbs BMV-H11, BMV-E6 and BMV-D4 VL CDR3
<400> 31
Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val
<210> 32
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<212> PRT
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<223> mAb BMV-C2 VL CDR1
<400> 32
Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser
<210> 33
<211> 7
<212> PRT
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<213> Artificial Sequence
<223> mAb BMV-C2 VL CDR2
<400> 33
Asp Val Ser Lys Arg Pro Ser
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<210> 34
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<212> PRT
<213> Artificial Sequence
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<223> mAb BMV-C2 VL CDR3
<400> 34
Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu
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<210> 35
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<213> Artificial Sequence
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<223> mAbs CS-D7, CS-E11, CS-D10 and CS-A10 VH CDR1
Gly Gly Ser Ile Arg Ser Ser Ser Tyr Tyr Trp Gly
                5
<210> 36
<211> 16
<212> PRT
<213> Artificial Sequence
<223> mAbs CS-D7 and CS-E11 VH CDR2
<400> 36
Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser Leu Lys Asn
                                    10
<210> 37
<211> 16
<212> PRT
<213> Artificial Sequence
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<223> mAbs CS-D7, CS-E11, CS-D10 and CS-A10 VH CDR3
<400> 37
Pro Gln Ala Tyr Ser His Asp Ser Ser Gly His Ser Pro Phe Asp Leu
                                     10
<210> 38
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb CS-D10 VH CDR2
<400> 38
Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser Leu Lys Ser
                 5
                                     10
<210> 39
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb CS-A10 VH CDR2
<400> 39
Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser Leu Lys Gly
                                     10
<210> 40
<211> 12
<212> PRT
<213> Artificial Sequence
<223> mAbs BMV-H11, BMV-E6, BMV-D4 and BMV-C2 VH CDR1
<400> 40
Gly Gly Ser Ile Ser Ser Ser Ser Tyr Tyr Trp Gly
<210> 41
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb BMV-H11 VH CDR2
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Asn Met Phe Tyr Ser Gly Gly Ala Tyr Tyr Asn Pro Ser Leu Lys Ser
<210> 42
<211> 18
<212> PRT
<213> Artificial Sequence
<223> mAbs BMV-H11 and BMV-C2 VH CDR3
<400> 42
Pro Leu Gly Tyr Asn Phe Asp Ser Ser Gly Gln Gly Lys Ser Ala Phe
Glu Ile
<210> 43
<211> 16
<212> PRT
<213> Artificial Sequence
<223> mAbs BMV-E6 and BMV-C2 VH CDR2
<400> 43
Asn Met Phe Tyr Ser Gly Ser Ala Tyr Tyr Asn Pro Ser Leu Lys Ser
                 5
                                    10
<210> 44
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb BMV-D4 VH CDR2
Asn Met Phe Tyr Ser Gly Gly Ala Tyr Tyr Asn Pro Ser Leu Lys Asn
                                   10
<210> 45
<211> 18
<212> PRT
<213> Artificial Sequence
<223> mAbs BMV-E6 and BMV-C2 VH CDR3
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Pro Leu Gly His Asn Phe Asp Ser Ser Gly Gln Gly Glu Gly Ala Phe
 1
Glu Ile
<210> 46
<211> 12
<212> PRT
<213> Artificial Sequence
<223> consensus sequence of SEQ ID NOs: 35 and 40
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<223> Xaa = any amino acid
<400> 46
Gly Gly Ser Ile Xaa Ser Ser Ser Tyr Tyr Trp Gly
                 5
                                    10
<210> 47
<211> 645
<212> PRT
<213> Staphylococcus aureus
<400> 47
Met Asn Lys Gln Gln Lys Glu Phe Lys Ser Phe Tyr Ser Ile Arg Lys
                                    10
Ser Ser Leu Gly Val Ala Ser Val Ala Ile Ser Thr Leu Leu Leu Leu
                                25
Met Ser Asn Gly Glu Ala Gln Ala Ala Ala Glu Glu Thr Gly Gly Thr
                            40
Asn Thr Glu Ala Gln Pro Lys Thr Glu Ala Val Ala Ser Pro Thr Thr
                        55
Thr Ser Glu Lys Ala Pro Glu Thr Lys Pro Val Ala Asn Ala Val Ser
                    70
Val Ser Asn Lys Glu Val Glu Ala Pro Thr Ser Glu Thr Lys Glu Ala
Lys Glu Val Lys Glu Val Lys Ala Pro Lys Glu Thr Lys Ala Val Lys
                                105
Pro Ala Ala Lys Ala Thr Asn Asn Thr Tyr Pro Ile Leu Asn Gln Glu
                            120
Leu Arg Glu Ala Ile Lys Asn Pro Ala Ile Lys Asp Lys Asp His Ser
                       135
                                            140
Ala Pro Asn Ser Arg Pro Ile Asp Phe Glu Met Lys Lys Glu Asn Gly
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                                        155
Glu Gln Gln Phe Tyr His Tyr Ala Ser Ser Val Lys Pro Ala Arg Val
                165
                                    170
Ile Phe Thr Asp Ser Lys Pro Glu Ile Glu Leu Gly Leu Gln Ser Gly
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Gln Phe Trp Arg Lys Phe Glu Val Tyr Glu Gly Asp Lys Leu Pro Ile Lys Leu Val Ser Tyr Asp Thr Val Lys Asp Tyr Ala Tyr Ile Arg Phe Ser Val Ser Asn Gly Thr Lys Ala Val Lys Ile Val Ser Ser Thr His Phe Asn Asn Lys Glu Glu Lys Tyr Asp Tyr Thr Leu Met Glu Phe . 250 Ala Gln Pro Ile Tyr Asn Ser Ala Asp Lys Phe Lys Thr Glu Glu Asp Tyr Lys Ala Glu Lys Leu Leu Ala Pro Tyr Lys Lys Ala Lys Thr Leu Glu Arg Gln Val Tyr Glu Leu Asn Lys Ile Gln Asp Lys Leu Pro Glu Lys Leu Lys Ala Glu Tyr Lys Lys Leu Glu Asp Thr Lys Lys Ala Leu Asp Glu Gln Val Lys Ser Ala Ile Thr Glu Phe Gln Asn Val Gln Pro Thr Asn Glu Lys Met Thr Asp Leu Gln Asp Thr Lys Tyr Val Val Tyr Glu Ser Val Glu Asn Asn Glu Ser Met Met Asp Thr Phe Val Lys His Pro Ile Lys Thr Gly Met Leu Asn Gly Lys Lys Tyr Met Val Met Glu Thr Thr Asn Asp Asp Tyr Trp Lys Asp Phe Met Val Glu Gly Gln Arg Val Arg Thr Ile Ser Lys Asp Ala Lys Asn Asn Thr Arg Thr Ile Ile Phe Pro Tyr Val Glu Gly Lys Thr Leu Tyr Asp Ala Ile Val Lys Val His Val Lys Thr Ile Asp Tyr Asp Gly Gln Tyr His Val Arg Ile Val Asp Lys Glu Ala Phe Thr Lys Ala Asn Thr Asp Lys Ser Asn Lys Lys Glu Gln Gln Asp Asn Ser Ala Lys Lys Glu Ala Thr Pro Ala Thr Pro Ser Lys Pro Thr Pro Ser Pro Val Glu Lys Glu Ser Gln Lys Gln Asp Ser Gln Lys Asp Asp Asn Lys Gln Leu Pro Ser Val Glu Lys Glu Asn Asp Ala Ser Ser Glu Ser Gly Lys Asp Lys Thr Pro Ala Thr Lys Pro Thr Lys Gly Glu Val Glu Ser Ser Ser Thr Thr Pro Thr Lys Val Val Ser Thr Thr Gln Asn Val Ala Lys Pro Thr Thr Ala Ser Ser Lys Thr Thr Lys Asp Val Val Gln Thr Ser Ala Gly Ser Ser Glu Ala Lys Asp Ser Ala Pro Leu Gln Lys Ala Asn Ile Lys Asn Thr Asn Asp Gly His Thr Gln Ser Gln Asn Asn Lys Asn Thr Gln Glu Asn Lys Ala Lys Ser Leu Pro Gln Thr Gly Glu Glu Ser Asn Lys Asp Met Thr Leu Pro

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Leu Met Ala Leu Leu Ala Leu Ser Ser Ile Val Ala Phe Val Leu Pro
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